

PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 3

**Complete if Known**

Application Number	10/815,727
Filing Date	April 2, 2004
First Named Inventor	John D. Brennan
Art Unit	1641
Examiner Name	Unsu Jung
Attorney Docket Number	3244-127

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
UJ		US-6,468,759	10-22-2002	CHARYCH	
UJ		US- 6,308,598	10-23-2001	JONAS	
UJ		US- 6,284,183	09-04-2001	STOWELL	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
UJ		WO9836263	08-20-1998	Stevens et al.		

Examiner  
Signature

/Unsu Jung/

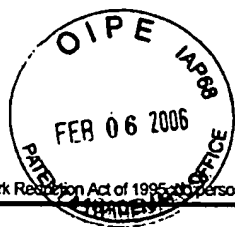
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Attorney Docket Number	3244-127

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
UJ	1.	TOAL, S., "Bio-Doped Nanocomposite Polymers: Sol-Gel Bioencapsulates", Chemistry of Materials, American Chemical Society, 2001, pp. 3404-3421, Vol. 13, No. 10.	
	2.	BESANGER, T., et al., "Characterization of Fluorescent Phospholipids Liposomes Entrapped in Sol-Gel Derived Silica", J. Phys. Chem. B., 2002, pp. 10535-10542, Vol. 106, No. 41. (Abstract only)	
	3.	GILL, I., et al., "Encapsulation of Biologicals Within Silicate, Siloxane, and Hybrid Sol-Gel Polymers: An efficient and generic approach", Journal of the American Chemical Society, 1998 pp. 8587-8598, Vol. 120.	
	4.	WEETALL, H., et al., "Bacteriorhodopsin Immobilized in Sol-Gel Glass", Biochimica et Biophysica Acta, 1993, pp. 211-213, Vol. 1142, No. 1.	
	5.	BESANGER, T., et al., "Ion Sensing and Inhibition Studies Using the Transmembrane Ion Channel Peptide Gramicidin A Entrapped in Sol-Gel-Derived Silica", Anal. Chem., 2003, pp. 1094-1101, Vol. 75.	
	6.	BESANGER, T., et al., "Entrapment of Highly Active Membrane-Bound Receptors in Macroporous Sol-Gel Derived Silica", Anal. Chem., 2004, pp. 6470-6475, Vol. 76.	
	7.	BRENNAN, J.D., "Optimizing Sol-Gel Entrapped Proteins for Bioanalytical Applications", Abstract, CSC Meeting, May 2004, London, Ontario.	
	8.	CRUZ-AGUADO, J., et al., "Sugar-Functionalized Silica Provides Enhanced Activity and Stability to Entrapped Enzymes", Abstract, CSC Meeting, May 2004, London, Ontario.	
	9.	RUPCICH, N., et al., "Development of DNA Aptamer-Microarrays Based Sol-Gel Derived Materials", Abstract, CSC Meeting, May 2004, London, Ontario.	
	10.	BESANGER, T.R., et al., "Entrapment of Highly Active Nicotinic Acetylcholine Receptor in Macroporous Sol-Gel Derived Materials", Abstract, CSC Meeting, May 2004, London, Ontario.	
✓	11.	SUI, X., et al., "Effect of Covalently Tethered Sugars on the Properties of Enzymes Entrapped in Sol-Gel Derived Silica", Abstract, CSC Meeting, May 2004, London, Ontario.	

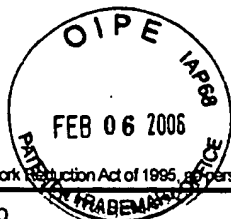
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UJ	12.	ZHANG, Z., et al., "The Biporous Structure of Monolithic Silica Columns Containing Entrapped Proteins", Abstract, Conference in Mexico, August 2002.	
UJ	13.	CHEN, Y., et al., "Syntheses of Sugar-Based Coupling Agents and Their Use in Preparing Protein-Friendly Silica Surfaces", Abstract, Conference in Mexico, August 2002.	
	14.	BESANGER, T., et al., "Toward the Entrapment of Stable Transmembrane Proteins: Characterization of Gramicidin Entrapped into Sol-Gel Derived Silicate Materials", Abstract, 85 <sup>th</sup> OGG Conference, Vancouver, BC, June 2002.	

Examiner Signature	/Unsu Jung/	Date Considered	08/23/2006
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